

**SELF-MONITORING RADIO NETWORK****Abstract**

A scheme of identifying nonfunctional two-way radios from among a known  
5 group of two-way radios expected to be operating within a region may include  
establishing a corresponding window of time for each of the two-way radios expected to  
be operating within the region. For each of the established windows of time, a  
transmission from the corresponding radio is awaited. If, for a particular radio, no  
transmission is detected within its corresponding window of time, the absence of the  
10 transmission is recorded. Finally, if, for a particular radio, the number of times absence  
of transmission has been recorded exceeds a threshold, the particular radio is identified  
as nonfunctional.